	Application No.		Applicant(s)	
Notice of Allowability	10/733,327		NEUSTADTER ET	AL.
	Examiner		Art Unit	
	Thomas J.	Dailey	2452	
- The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAIN or other app IGHTS. This and MPEP	NS) CLOSED in this ap ropriate communication application is subject t	plication. If not include n will be mailed in due	ed course. THIS
1. This communication is responsive to <u>Amendment entered 3/30/2010</u> .				
2. ☑ The allowed claim(s) is/are <u>24-43</u> .				
3.				
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. 7. 8. 9.	☐ Notice of Informal F ☐ Interview Summary Paper No./Mail Da ☑ Examiner's Amendi ☑ Examiner's Stateme ☐ Other THU NGUVEN/	(PTO-413), ite <u>201000615</u> . ment/Comment	owance
Patent Examiner, Art Unit 2452		upervisory Patent Ex	aminer, Art Unit 245	2

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## DETAILED ACTION

1. Claims 24-43 were added by the amendment filed on 3/30/2010.

2. Claims 1, 2, 4-10, and 12-23 were cancelled by the amendment.

3. Claims 24-43 are pending.

## EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

 Authorization for this examiner's amendment was given in a telephone interview with Victoria Donnelly on June 15, 2010. The amendment amends method claim 32 to have a similar scope to that of the other independent claims.

The application, specifically claim 32, has been amended as follows:

32. (Currently amended) A method of verifying continuity of paths in a wavekey network comprising a plurality of nodes interconnected through a plurality of multi-channel links, each node having a node controller, the method comprising:

providing a link interface for each multi-channel link among said plurality of multi-channel links;

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sending optical signals occupying channels of different wavelength bands of said each multi-channel link, said optical signals comprising control signals occupying a control channel and data signals occupying data channels of said each multi-channel link;

sending, over each data channel of said each multi-channel link, data of a respective connection originating from an access port of a source node and terminating at an access port of a destination node;

modulating said each data channel by a respective wavekey of at least one dither tone;

distributing, by said node controller, nodal information to each other node, said nodal information comprising:

an identifier of a respective connection traversing each data channel of each link emanating from said each node;

an identifier of a central wavelength of said each data channel; and an identifier of a current wavekey modulating said central wavelength;

and

communicating to a network controller, from a gateway node selected from among said plurality of nodes, nodal information pertinent to said each node to enable said network controller to determine continuity of said respective connection.

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## Allowable Subject Matter

6. Claims 24-43 are allowed.

7. The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or suggest all limitations of the claimed invention with particular emphasis a plurality of links, each link connecting inter-nodal interfaces of a respective node pair and supporting optical signals occupying channels of different wavelength bands, said channels comprising: a control channel carrying control signals; and data channels, each data channel carrying data of a respective connection from an access port of a source node to an access port of a destination node, said each data channel further modulated by a respective wavekey of at least one dither tone.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

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(a) US Pub. No. 2003/0058496- "Topology discovery in optical WDM networks"

- (b) US Pat. 6,707,795 "Alarm correlation method and system"
- (c) US Pat. 7,469,102 "Wavelength-division-multiplexing passive optical network utilizing fiber fault detectors and/or wavelength tracking components"
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am 5:00pm.
- 11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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12. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

 $\label{published} \mbox{published applications may} \mbox{ be obtained from either Private PAIR or Public PAIR.}$ 

Status information for unpublished applications is available through Private PAIR  $\,$ 

only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

/T. J. D./

Examiner, Art Unit 2452

/THU NGUYEN/

Supervisory Patent Examiner, Art Unit 2452